

ABSTRACT

METHOD, COMPUTER SYSTEM AND COMPUTER PROGRAM  
5 PRODUCT FOR DETERMINING THE EQUIVALENCE OF TWO  
BLOCKS OF ASSIGNMENT STATEMENTS

10 The present invention discloses a method for determining, in a computer environment,  
the equivalence, if any, of two blocks of assignment statements in a computer program  
for use in compiler optimization of source code, program verification, program proving,  
and like computing tasks. The method, *inter alia*, successfully eliminates, from a block  
of assignment statements, all intermediate variables and statements which are identities  
and also those which are irrelevant to the computation of the output variables and brings  
15 the block to a form suitable for comparing two or more blocks of assignment  
statements. A system for carrying out the above method and a computer program  
product incorporating the method are also disclosed.

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